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Amendments to Specification

Page 1, delete the TITLE in its entirety and replace therewith the following:

RECORDING AND REPRODUCING APPARATUS, FILE ACCESSING
METHOD, AV DATA MANAGING METHOD AND SERVER

Page 1, before line 1 insert the following:

This application is a National Stage Application of PCT Application No. PCT/JP2004/010401, filed July 22, 2004, the teachings of which are incorporated herein by reference.

Page 6, lines 13-14, delete “DISCLOSURE OF THE INVENTION” and “PROBLEMS TO BE SOLVED BY THE INVENTION”

Page 7, before paragraph [0014] insert the following:

SUMMARY OF INVENTION.

Pages 9-22, delete from line 1 on page 9 to line 3 on page 22 and replace with the following:

from a recording medium recording the plurality of the associated AV data, the original AV data and the associated AV data can be combined and reproduced concurrently.

[0018]

A first technical means is a recording and reproducing apparatus comprising a reading means-unit that reads content including AV data or application programs/data; a recording means-unit that records the read content; and a processing means-unit that reproduces or executes the recorded content, wherein the processing means-unit adds different access constraints to any content that can be reproduced or executed by the recording and reproducing apparatus depending on the process of the content.

[0019]

A second technical means is the recording and reproducing apparatus of the first technical means, comprising an external interface to connect an external recording medium recording the content or to connect a server recording the content via network,

wherein the processing **meansunit** has an installation processing **meansunit** that installs the content recorded in the external recording medium or the server connected with the external interface into a certain area of the recording **meansunit**.

[0020]

A third technical means is the recording and reproducing apparatus of the second technical means, wherein the installation processing **meansunit** permits only the content allowed to be installed in the external recording medium or the server connected with the external interface to be installed into the certain area of the recording **meansunit**.

[0021]

A fourth technical means is the recording and reproducing apparatus of the second technical means, wherein the processing **meansunit** instructs the installation processing **meansunit** to install based on an installation instruction from the content reproduced or executed by the recording and reproducing apparatus and wherein the writing process to the certain area cannot be executed by other than the installation processing **meansunit**.

[0022]

A fifth technical means is the recording and reproducing apparatus of any one of the second to fourth technical means, wherein when the recording and reproducing apparatus reproduces or executes any content, the processing **meansunit** makes the content unable to access other or all contents recorded in the external recording medium.

[0023]

A sixth technical means is the recording and reproducing apparatus of any one of the second to fourth technical means, wherein when the recording and reproducing apparatus reproduces or executes any content, the processing **meansunit** makes the content unable to access other or all contents installed in the recording **meansunit**.

[0024]

A seventh technical means is the recording and reproducing apparatus of any one of the second to fourth technical means, comprising a memory that is an execution area

of the content, wherein the processing meansunit has a load processing meansunit that loads the executable content recorded in the recording meansunit, the external recording medium, or the server into the memory.

[0025]

An eighth technical means is the recording and reproducing apparatus of the seventh technical means, wherein the processing meansunit instructs the load processing meansunit to load based on a load instruction from the content reproduced or executed by the recording and reproducing apparatus and wherein the load process cannot be executed by other than the load processing meansunit.

[0026]

A ninth technical means is the recording and reproducing apparatus of the seventh or eighth technical means, wherein when the recording and reproducing apparatus reproduces or executes any content, the processing meansunit makes the content unable to access other or all contents loaded in the memory.

[0027]

A tenth technical means is the recording and reproducing apparatus of the seventh or eighth technical means, wherein the recording meansunit has programs and data necessary for reproducing or executing the content that are regarded as one package and recorded on a package by package basis, wherein the load processing meansunit loads at least all or some of the programs constituting an any package recorded in the recording meansunit into the memory, and wherein when reproducing or executing all or some of the programs constituting the package that are loaded into the memory, the processing meansunit makes the reproduced or executed programs unable to access packages other than the package including the programs.

[0028]

An eleventh technical means is the recording and reproducing apparatus of the seventh or eighth technical means, wherein when the recording and reproducing apparatus reproduces or executes any content, the processing meansunit completely

prohibits the reproduced or executed content from accessing the recording **meansunit**, the external recording medium, the server, and the memory.

[0029]

A twelfth technical means is the recording and reproducing apparatus of any one of the first to eleventh technical means, wherein when the recording and reproducing apparatus reproduces or executes any content, the processing **meansunit** constrains the access of the content depending on the reliability of the content.

[0030]

A thirteenth technical means is the recording and reproducing apparatus of the twelfth technical means, wherein the reliability of the content is set based on any one or more of a description language of the program, a recording medium that is a read source of the content read by the reading **meansunit**, and a network address that is a read source of the content read by the reading **meansunit**.

[0031]

A fourteenth technical means is a file accessing method for accessing content configuration files with the use of a recording and reproducing apparatus comprising a reading **meansunit** that reads content including AV data or application programs/data, a recording **meansunit** that records the read content, and a processing **meansunit** that reproduces or executes the recorded content, wherein different access constraints are added to any content that can be reproduced or executed by the recording and reproducing apparatus depending on the process of the content.

[0032]

A fifteenth technical means is the file accessing method of the fourteenth technical means, wherein the content recorded in the external recording medium or the server is read and wherein the read content is installed into a certain area of the recording **meansunit**.

[0033]

A sixteenth technical means is the file accessing method of the fifteenth technical means, wherein only the content allowed to be installed in the external recording medium or the server is allowed to be installed into the certain area of the recording meansunit.

[0034]

A seventeenth technical means is the file accessing method of the fifteenth technical means, wherein an installation processing meansunit provided in the processing meansunit is instructed to install based on an installation instruction from the content reproduced or executed by the recording and reproducing apparatus and wherein the writing process to the certain area of the recording meansunit cannot be executed by other than the installation processing meansunit.

[0035]

An eighteenth technical means is the file accessing method of any one of the fifteenth to seventeenth technical means, wherein when the recording and reproducing apparatus reproduces or executes any content, the content is made unable to access other or all contents recorded in the external recording medium.

[0036]

A nineteenth technical means is the file accessing method of any one of the fifteenth to seventeenth technical means, wherein when the recording and reproducing apparatus reproduces or executes any content, the content is made unable to access other or all contents installed in the recording meansunit.

[0037]

A twentieth technical means is the file accessing method of any one of the twenty-fifth to seventeenth technical means, wherein the executable content recorded in the recording meansunit, the external recording medium, or the server is loaded into a memory provided in the recording and reproducing apparatus.

[0038]

A twenty-first technical means is the file accessing method of the twentieth technical means, wherein a load processing meansunit provided in the processing meansunit is instructed to load based on a load instruction from the content reproduced or executed by the recording and reproducing apparatus and wherein the load process cannot be executed by other than the load processing meansunit.

[0039]

A twenty-second technical means is the file accessing method of the twentieth or twenty-first technical means, wherein when the recording and reproducing apparatus reproduces or executes any content, the content is made unable to access other or all contents loaded in the memory.

[0040]

A twenty-third technical means is the file accessing method of the twentieth or twenty-first technical means, wherein the recording meansunit has programs and data necessary for reproducing or executing the content that are regarded as one package and recorded on a package-by-package basis, wherein at least all or some of the programs constituting an any package recorded in the recording meansunit are loaded into the memory, and wherein when reproducing or executing all or some of the loaded programs constituting the package, the reproduced or executed programs are made unable to access packages other than the package including the programs.

[0041]

A twenty-fourth technical means is the file accessing method of the twentieth or twenty-first technical means, wherein when the recording and reproducing apparatus reproduces or executes any content, the content is completely prohibited from accessing the recording meansunit, the external recording medium, the server, and the memory.

[0042]

A twenty-fifth technical means is the file accessing method of any one of the fourteenth to twenty-fourth technical means, wherein when the recording and

reproducing apparatus reproduces or executes any content, the access of the content is constrained depending on the reliability of the content.

[0043]

A twenty-sixth technical means is the file accessing method of the twenty-fifth technical means, wherein the reliability of the content is set based on any one or more of a description language of the program, a recording medium that is a read source of the content read by the reading meansunit, and a network address that is a read source of the content read by the reading meansunit.

[0044]

A twenty-seventh technical means is an AV data managing method for managing AV data reproduction process with the use of management information of the AV data, the method comprising an associated AV data/management information acquiring step of acquiring a plurality of associated AV data associated with AV data recorded in a recording medium as well as management information of the AV data that has associated management information added for managing the reproduction process of the associated AV data; a recording step of recording the obtained plurality of the associated AV data and the management information of the AV data into a certain recording area; and a reproduction controlling step of concurrently reproducing and controlling the AV data recorded in the recording medium and the associated AV data recorded in the recording area in accordance with the recorded management information.

[0045]

A twenty-eighth technical means is the AV data managing method of the twenty-seventh technical means, wherein as a result of retrieving the AV data management information that can be obtained at the associated AV data/management information acquiring step and the AV data management information already recorded at the recording step, it is determined that the management information with the largest number of pieces of the added associated management information is the latest, and wherein at the reproduction controlling step, the AV data and the associated AV data are

concurrently reproduced and controlled with the use of the determined latest management information.

[0046]

A twenty-ninth technical means is the AV data managing method of the twenty-seventh or twenty-eighth technical means, comprising a determining step of determining whether or not the associated AV data corresponding to each piece of the associated management information included in the AV data management information recorded at the recording step are recorded in a certain recording area, wherein if the associated AV data are not recorded in the recording area as a result, the associated management information corresponding to the associated AV data is disabled.

[0047]

A thirtieth technical means is the AV data managing method of the twenty-ninth technical means, comprising a deleting step of selectively deleting only the associated AV data recorded in the recording area out of the associated AV data that are managed by the AV data management information obtained at the associated AV data/management information acquiring step.

[0048]

A thirty-first technical means is an AV data management information producing/providing method wherein when associated AV data associated with AV data recorded in a recording medium are produced, management information of the AV data having associated management information added correspondingly to the associated AV data is produced to enable the produced associated AV data and the AV data management information to be provided.

[0049]

A thirty-second technical means is a recording and reproducing apparatus having an external device interface that reads AV data recorded in the recording medium and a network interface that connects with a server that records a plurality of associated AV data associated with the AV data recorded in the recording medium, wherein the recording and reproducing apparatus comprises downloading means/unit that download

the plurality of the associated AV data as well as management information of the AV data that has associated management information added for managing the reproduction process of the associated AV data from the server into a certain recording area; and reproduction controlling meansunit that concurrently reproduce and control the AV data recorded in the recording medium and the downloaded associated AV data in accordance with the downloaded management information.

[0050]

A thirty-third technical means is the recording and reproducing apparatus of the thirty-second technical means, wherein as a result of retrieving the AV data management information recorded in the server and the AV data management information already recorded in the recording area, it is determined that the management information with the largest number of pieces of the added associated management information is the latest, and wherein the reproduction controlling meansunit concurrently reproduces and controls the AV data and the associated AV data with the use of the determined latest management information.

[0051]

A thirty-fourth technical means is the recording and reproducing apparatus of the thirty-second or thirty-third technical means, comprising a determining meansunit that determines whether or not the associated AV data corresponding to each piece of the associated management information included in the AV data management information downloaded by the downloading meansunit are downloaded into the recording area, wherein if the associated AV data are not downloaded into the recording area as a result, the associated management information corresponding to the associated AV data is disabled.

[0052]

A thirty-fifth technical means is the recording and reproducing apparatus of the thirty-fourth technical means, comprising a deleting meansunit that selectively deletes only the associated AV data downloaded into the recording area out of the associated AV

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data that are managed by the AV data management information downloaded by the downloading meansunit.

[0053]

A thirty-sixth technical means is a server that can be connected to the recording and reproducing apparatus of any one of the thirty-second to thirty-fifth technical means, wherein when associated AV data associated with AV data recorded in a recording medium are produced, management information of the AV data having associated management information added correspondingly to the associated AV data is produced to enable the produced associated AV data and the AV data management information to be provided.

[0054]

According to the invention, by accessing to an external recording medium or a server that records content including AV data or application programs/data to record the content into local storage and by adding access constraint to any content recorded in the external recording medium or local storage in a recording and reproducing apparatus that reproduces or executes the recorded content, unauthorized copying or alteration due to the content can be prevented.

Page 23, insert the following between BRIEF DESCRIPTION OF THE DRAWINGS and paragraph [0060]:

For a fuller understanding of the nature and desired objects of the present invention, reference is made to the following detailed description taken in conjunction with the accompanying drawing figures wherein like reference character denote corresponding parts throughout the several views and wherein: